

























How to Draw a House?

when a dicked dear set pen size to () set pen color to pen up go to x: () y: (30) point in direction () pen down repeat () move (0) steps turn () () degrees move (0) steps

Activate script by clicking flag Code runs sequentially Set pen characteristics Make sure "pen up" Move to starting point Put "pen down" Move Sprite along desired path, using move and turn blocks













4) Algorithm with Randomness: Version A: Brownian Motion

Specification?

Initial state

- Stage is empty
- · Marker begins in middle of stage

Repeat forever

Specification

Initial state

middle

Repeat forever

of circle

center

- Move randomly up/ down and left/right
- Change to random (nearby) color
- If reach edge, go back to center









Programming Concepts

General

- Think about initial state
- Incrementally test code as you go
- Scripts must be activated to run (when flag clicked)
- Execution within script proceeds sequentially
- Control : forever, repeat <times>, if <question> then

Blocks in Scratch

- Movement: X-Y coordinate system for Stage
- Pen and stamps
- Random numbers

Announcements

Homework 2 due before class Monday

- See web page for hw details
- Any questions with <u>cs202-tas@cs.wisc.edu</u>

Homework 1 Graded - Available thru Learn@UW

Optional: TED Talk

- Golan Levin makes art that looks back at you
- http://www.ted.com/talks/golan_levin_ted2009.html

